ELSEVIER

Physica C 305 (1998) 313–315

PHYSICA C

Author Index to Volume 305

Agliolo Gallitto, A. and M. Li Vigni, Harmonic emission at microwave frequencies in $YBa_2Cu_3O_7$ single crystals near T_c, **305** (1998) 75
Alexandrov, A.S., *d*-wave Bose–Einstein condensate and tunnelling in superconducting cuprates, **305** (1998) 46
Apperley, M., see Herrmann, J., **305** (1998) 114

Behr, G., see Jaenicke-Rössler, U., **305** (1998) 209
Bitterlich, H., see Jaenicke-Rössler, U., **305** (1998) 209

Cantelli, R., see Cordero, F., **305** (1998) 251
Cao, X.W., Z.H. Wang and K.B. Li, Critical current density and flux pinning in vortex liquid regime for $YBa_2Cu_3O_{7-\delta}$ epitaxial thin films, **305** (1998) 68
Chen, X. and C. Gong, Pressure-induced charge transfer and pressure effect on T_c in $Tl_2Ba_2CuO_{6+\delta}$ compounds, **305** (1998) 262
Coffey, D., Strong-coupling features due to quasiparticle interactions in two-dimensional superconductors, **305** (1998) 139
Cordero, F., C.R. Grandini and R. Cantelli, Structure, mobility and clustering of interstitial O in $La_2CuO_{4+\delta}$ in the limit of small δ, **305** (1998) 251
Cucolo, A.M., Zero bias conductance peaks in high-T_c superconductors: clues and ambiguities of two mutually excluding models, **305** (1998) 85

Dai, M.C. and T.J. Yang, Magnetic properties for anisotropic $d_{x^2-y^2}$-wave superconductivity, **305** (1998) 301
Dam, B., J.H. Rector, J.M. Huijbregtse and R. Griessen, The transition from 2D-nucleation to spiral growth in pulsed laser deposited $YBa_2Cu_3O_{7-\delta}$ films, **305** (1998) 1
Darmann, F., see Herrmann, J., **305** (1998) 114
Du, Z.H., see Yang, W.M., **305** (1998) 269

Emelyanov, D.A., see Lee, S., **305** (1998) 57

Fan, X., see Sun, X., **305** (1998) 227
Feng, Y., see Yang, W.M., **305** (1998) 269

Gawalek, W., see Yang, W.M., **305** (1998) 269
Gong, C., see Chen, X., **305** (1998) 262
Goo, D., S. Oh, J.H. Kim, K. Jung and D. Youm, Diffusion bonding of the textured Ni tapes for the substrate of YBCO coated conductors, **305** (1998) 221
Gornert, P., see Yang, W.M., **305** (1998) 269
Grandini, C.R., see Cordero, F., **305** (1998) 251
Griessen, R., see Dam, B., **305** (1998) 1
Gupta, M., see Gupta, R.P., **305** (1998) 179
Gupta, R.P. and M. Gupta, Effect of zinc substitution on the carrier density in $YBa_2Cu_3O_{7-\delta}$ superconductors, **305** (1998) 179

Hari Babu, N., T. Rajasekharan, L. Menon, S. Srinivas and S.K. Malik, Effect of a systematic variation of $Nd_4Ba_2Cu_2O_{10}$ content on the magnetic properties of melt processed $NdBa_2Cu_3O_{7-\delta}$ superconductor, **305** (1998) 103
Hennig, W., see Sawh, R.-P., **305** (1998) 159
Herrmann, J., N. Savvides, K.-H. Müller, R. Zhao, G. McCaughey, F. Darmann and M. Apperley, Current distribution and critical state in superconducting silver-sheathed (Bi,Pb)-2223 tapes, **305** (1998) 114
Herzog, T., see Wen, H.-h., **305** (1998) 185
Huijbregtse, J.M., see Dam, B., **305** (1998) 1

Iwasaki, H., T. Matsumoto, F. Yukimachi, K. Tanigawa and F. Matsuoka, Observation of pancake-like vortex in the angular dependence of the magnetization around $H \| a$-axis in $Nd_{1.858}Ce_{0.142}CuO_4$ single crystal, **305** (1998) 11

Jaenicke-Rössler, U., G. Zahn, P. Paufler, H. Bitterlich and G. Behr, Pressure dependence of unit cell geometry of single crystalline $TbNi_2B_2C$, **305** (1998) 209
Jiang, H., F.H. Li, W. Liu, Y. Zhang and Z.Q. Mao, Structural modulation in $Bi_2(Sr_{0.9}La_{0.1})_2Cu_{1-x}Co_xO_y$ ($x = 0.2$, 0.6, 1.0), **305** (1998) 202
Jung, K., see Goo, D., **305** (1998) 221

Kakihana, M., see Lee, S., **305** (1998) 57
Kato, K., see Kuwasawa, Y., **305** (1998) 95
Kawamura, M., see Yoshimori, S., **305** (1998) 281
Khasanova, N.R., A. Yamamoto, S. Tajima, X.-J. Wu and K. Tanabe, Superconductivity at 10.2 K in the K–Bi–O system, **305** (1998) 275
Kim, J.H., see Goo, D., **305** (1998) 221
Kim, M.-S., see Lee, S., **305** (1998) 57
Kiryakov, N.P., see Lee, S., **305** (1998) 57
Kobayashi, A., see Yoshimori, S., **305** (1998) 281
Kottman, P., see Paasi, J., **305** (1998) 21
Kováč, P., see Pitel, J., **305** (1998) 26

Koyama, S., see Oka, A., **305** (1998) 213
Kuwasawa, Y., K. Kato, M. Matsuo and T. Nojima, Indications of pair electron effect above field induced superconductor–insulator transition in amorphous ultra thin W films with Si/W/Si structure, **305** (1998) 95
Kuznetsov, M.S., see Lee, S., **305** (1998) 57

Lee, S., N.P. Kiryakov, D.A. Emelyanov, M.S. Kuznetsov, Yu.D. Tretyakov, V.V. Petrykin, M. Kakihana, H. Yamauchi, Y. Zhuo, M.-S. Kim and S.-I. Lee, Effect of Sr substitution on irreversibility line, lattice dynamics and formation of Hg,Pb-1223 superconductors, **305** (1998) 57
Lee, S.-I., see Lee, S., **305** (1998) 57
Li, F.H., see Jiang, H., **305** (1998) 202
Li, K.B., see Cao, X.W., **305** (1998) 68
Li, X.-G., see Sun, X., **305** (1998) 227
Liu, W., see Jiang, H., **305** (1998) 202
Li Vigni, M., see Agliolo Gallitto, A., **305** (1998) 75

Majoroš, M., see Paasi, J., **305** (1998) 21
Malik, S.K., see Hari Babu, N., **305** (1998) 103
Mao, Z.Q., see Jiang, H., **305** (1998) 202
Mashino, M., see Yasuoka, H., **305** (1998) 125
Matsumoto, T., see Iwasaki, H., **305** (1998) 11
Matsuo, M., see Kuwasawa, Y., **305** (1998) 95
Matsuoka, F., see Iwasaki, H., **305** (1998) 11
Mazaki, H., see Yasuoka, H., **305** (1998) 125
McCaughey, G., see Herrmann, J., **305** (1998) 114
Menon, L., see Hari Babu, N., **305** (1998) 103
Miranovič, P., see Rábara, M., **305** (1998) 285
Miya, K., see Rábara, M., **305** (1998) 285
Mizushima, K., see Yoshimori, S., **305** (1998) 281
Müller, K.-H., see Herrmann, J., **305** (1998) 114

Naito, M., H. Yamamoto and H. Sato, Reflection high-energy electron diffraction and atomic force microscopy studies on homoepitaxial growth of $SrTiO_3$(001), **305** (1998) 233
Nemoto, T., see Sawh, R.-P., **305** (1998) 159
Nojima, T., see Kuwasawa, Y., **305** (1998) 95

Oh, S., see Goo, D., **305** (1998) 221
Oka, A., S. Koyama and Y. Shiohara, Study of oxygen diffusion in $NdBa_2Cu_3O_{7-\delta}$ single crystal by in-situ observation of twin formation, **305** (1998) 213

Paasi, J., P. Kottman, M. Majoroš and V. Plecháček, Intergranular and intragranular currents in $(Bi,Pb)_2Sr_2Ca_2Cu_3O_{10+x}$ superconductors: temperature dependence in low magnetic fields, **305** (1998) 21
Paufler, P., see Jaenicke-Rössler, U., **305** (1998) 209
Petrykin, V.V., see Lee, S., **305** (1998) 57
Pitel, J. and P. Kováč, Influence of an axial current density stepping on the critical currents and magnetic field of cylindrical magnets wound with Bi(2223)Ag anisotropic tapes—theoretical analysis, **305** (1998) 26
Plecháček, V., see Paasi, J., **305** (1998) 21

Rábara, M., Y. Yoshida, T. Takeuchi, P. Miranovič and K. Miya, Irreversibility field analysis for $Bi_2Sr_2Ca_2Cu_3O_x$ tapes by using axial probe, **305** (1998) 285
Radovan, H.A., see Wen, H.-h., **305** (1998) 185
Rajasekharan, T., see Hari Babu, N., **305** (1998) 103
Rector, J.H., see Dam, B., **305** (1998) 1
Ren, Y., see Sawh, R.-P., **305** (1998) 159

Sato, H., see Naito, M., **305** (1998) 233
Savvides, N., see Herrmann, J., **305** (1998) 114
Sawh, R.-P., Y. Ren, R. Weinstein, W. Hennig and T. Nemoto, Uranium chemistry and pinning centers in high temperature superconductor, **305** (1998) 159
Shi, J.B., Dielectric studies in T^* and T' structures of $(La, Gd)_2CuO_4$, **305** (1998) 35
Shiohara, Y., see Oka, A., **305** (1998) 213
Srinivas, S., see Hari Babu, N., **305** (1998) 103
Suenaga, M., see Wu, L., **305** (1998) 167
Sun, X., X. Zhao, W. Wu, X. Fan and X.-G. Li, Growth of $Bi_2Sr_2Ca_{1-x}Pr_xCu_2O_y$ single crystals from Bi-rich melts, **305** (1998) 227

Tajima, S., see Khasanova, N.R., **305** (1998) 275
Takei, S., see Yoshimori, S., **305** (1998) 281
Takeuchi, T., see Rábara, M., **305** (1998) 285
Tanabe, K., see Khasanova, N.R., **305** (1998) 275
Tanigawa, K., see Iwasaki, H., **305** (1998) 11
Tochihara, S., see Yasuoka, H., **305** (1998) 125
Tretyakov, Yu.D., see Lee, S., **305** (1998) 57

Uchida, Y., see Yoshimori, S., **305** (1998) 281

Wang, F.Y., see Yang, W.M., **305** (1998) 269
Wang, J.R., see Yang, W.M., **305** (1998) 269
Wang, Z.H., see Cao, X.W., **305** (1998) 68
Weinstein, R., see Sawh, R.-P., **305** (1998) 159
Wen, H.-h., P. Ziemann, H.A. Radovan and T. Herzog, On the magnetization relaxation of ring-shaped $Tl_2Ba_2CaCu_2O_8$ thin films as determined by superconducting quantum interference device measurements, **305** (1998) 185
Wu, C.-J., Microwave properties of a composite superconducting structure in the mixed state, **305** (1998) 293
Wu, L., Y. Zhu and M. Suenaga, Crystallographic analysis of the intermediate phases observed during the conversion of $(Bi, Pb)_2Sr_2CaCu_2O_{8+\delta}$ to $(Bi, Pb)_2Sr_2Ca_2Cu_3O_{10+\delta}$ in composite tapes, **305** (1998) 167
Wu, M.Z., see Yang, W.M., **305** (1998) 269
Wu, W., see Sun, X., **305** (1998) 227
Wu, X.-J., see Khasanova, N.R., **305** (1998) 275
Wu, X.Z., see Yang, W.M., **305** (1998) 269

Yamamoto, A., see Khasanova, N.R., **305** (1998) 275
Yamamoto, H., see Naito, M., **305** (1998) 233
Yamauchi, H., see Lee, S., **305** (1998) 57
Yang, T.J., see Dai, M.C., **305** (1998) 301

Yang, W.M., L. Zhou, Y. Feng, P.X. Zhang, M.Z. Wu, C.P. Zhang, J.R. Wang, Z.H. Du, F.Y. Wang, Z.M. Yu, X.Z. Wu, W. Gawalek and P. Gornert, The effect of excess Y_2O_3 addition on the levitation force of melt processed YBCO bulk superconductors, **305** (1998) 269
Yasuoka, H., S. Tochihara, M. Mashino and H. Mazaki, Material parameters of $YBa_2Cu_3O_y$ in the Kim–Anderson critical-state model, **305** (1998) 125
Yoshida, Y., see Rábara, M., **305** (1998) 285
Yoshimori, S., K. Mizushima, A. Kobayashi, S. Takei, Y. Uchida and M. Kawamura, Synthesis and AES analysis of Nb(NbN)–AlN multilayers by off-axial DC magnetron sputtering, **305** (1998) 281
Youm, D., see Goo, D., **305** (1998) 221
Yu, Z.M., see Yang, W.M., **305** (1998) 269
Yukimachi, F., see Iwasaki, H., **305** (1998) 11

Zahn, G., see Jaenicke-Rössler, U., **305** (1998) 209
Zhang, C.P., see Yang, W.M., **305** (1998) 269
Zhang, P.X., see Yang, W.M., **305** (1998) 269
Zhang, Y., see Jiang, H., **305** (1998) 202
Zhao, R., see Herrmann, J., **305** (1998) 114
Zhao, X., see Sun, X., **305** (1998) 227
Zhou, L., see Yang, W.M., **305** (1998) 269
Zhu, Y., see Wu, L., **305** (1998) 167
Zhuo, Y., see Lee, S., **305** (1998) 57
Ziemann, P., see Wen, H.-h., **305** (1998) 185

ELSEVIER

Physica C 305 (1998) 316–317

PHYSICA C

Analytic Subject Index to Volume 305

Activation energy
–for ($La_{0.3}Gd_{1.7}CuO_4$) 35
–for ($La_{1.15}Gd_{0.85}CuO_4$) 35
AFM
–on $SrTiO_3$ 233
Anelastic spectroscopy
–on $La_2CuO_{4+\delta}$ 251
Angular dependence magnetization 11
Application of high-T_c superconductors 26
Auger electron spectroscopy
–on Nb(NbN)-AlN multilayers 281
Axial probe 285

Bose einstein condensate 46
Bose glass
–in Si/a-W/Si films 95
Bulk modulus
–of $TbNi_2B_2C$ 209

Carrier density
–in $YBa_2Cu_3O_7$ 179
Charge transfer
–in $Tl_2Ba_2CuO_{6+\delta}$ 262
Chemical oxygen diffusion
–in $NdBa_2Cu_3O_{7-\delta}$ 213
–in $YBa_2Cu_3O_{7-\delta}$ 213
Chemical pinning center 159
Clustering
–in $La_2CuO_{4+\delta}$ 251
Composition
–of $Bi_2Sr_2Ca_{1-x}Pr_xCu_2O_y$ single crystals 227
Conversion
–of $(Bi,Pb)_2Sr_2CaCu_2O_{8+\delta}$ 167
Critical current
–of $Bi_2Sr_2Ca_2Cu_3O_x$ tapes 285
Critical current density
–of $(Bi,Pb)_2Sr_2Ca_2Cu_3O_{10+x}$ 21
–of $Bi_{2223}Ag$ pancake coils 26
–of Hg-1223 57
–of $NdBa_2Cu_3O_{7-\delta}$ 103
–of $Tl_2Ba_2CaCu_2O_8$ thin films 185
–of $YBa_2Cu_3O_{7-\delta}$ 159
–of $YBa_2Cu_3O_{7-\delta}$ thin films 68
Critical current distribution
–in $(Bi,Pb)_2Sr_2Ca_2Cu_3O_x$ ((Bi,Pb)-2223/Ag) tape 114
Cu–O planes
–in $YBa_2Cu_3O_7$ 179
Current density stepping
–in $Bi_{2223}Ag$ pancake coils 26

3D island growth
–of $SrTiO_3$ 233
D-wave superconductor 46
Dielectric constant
–of ($La_{0.3}Gd_{1.7}CuO_4$) 35
–of ($La_{1.15}Gd_{0.85}CuO_4$) 35
Diffusion bonding
–of Ni tapes 221
Doping efficiency
–in $La_2CuO_{4+\delta}$ 251
Doping level
–of $K_{1-x}Bi_{1+x}O_3$ 275

Elastic constants
–of $TbNi_2B_2C$ 209
Electrical resistivity
–of Nb(NbN)-AlN multilayers 281
Electromagnetic field response
–of $YBa_2Cu_3O_7$ single crystals 75
Electron microscopy
–on $Bi_2(Sr_{0.9}La_{0.1})_2Cu_{1-x}Co_xO_y$ 202
Electron-phonon coupling 46
Encapsulation technique 57

Fluctuation 95
Flux creep
–in $Tl_2Ba_2CaCu_2O_8$ thin films 185
Flux pinning
–in $YBa_2Cu_3O_y$ 125
–in $YBa_2Cu_3O_{7-\delta}$ 159
–in $YBa_2Cu_3O_{7-\delta}$ thin films 68
Fluxoid correlation
–in $Bi_2Sr_2Ca_2Cu_3O_x$ tapes 285

Glassy state
–in $Tl_2Ba_2CaCu_2O_8$ thin films 185
Granular superconductivity
–in $(Bi,Pb)_2Sr_2Ca_2Cu_3O_{10+x}$ 21
Growth mechanisms
–for $YBa_2Cu_3O_{7-\delta}$-films 1

High-pressure effects
–on $TbNi_2B_2C$ 209
Hole concentration
–in $Tl_2Ba_2CuO_{6+\delta}$ 262
Homoepitaxial growth
–of $SrTiO_3$ 233
Hysteresis 11

Irreversibility field
–in $YBa_2Cu_3O_y$ 125
Irreversibility line
–of Hg-1223 57
Irreversibility lines
–of $Bi_2Sr_2Ca_2Cu_3O_x$ tapes 285

Kim–Anderson critical-state model 125

Layer-by-layer growth
–of $SrTiO_3$ 233
Levitation force
–on YBCO 269
Localization
–in Si/a-W/Si films 95

Magnet of superconducting material 159
Magnetic field distribution 301
Magnetic inversion
–in $(Bi,Pb)_2Sr_2Ca_2Cu_3O_x$ ((Bi,Pb)-2223/Ag) tape 114
Magnetic properties 301
Magnetic susceptibility
–of $K_{1-x}Bi_{1+x}O_3$ 275
Magnetisation
–of $(Bi,Pb)_2Sr_2Ca_2Cu_3O_{10+x}$ 21
Magnetization
–of $Nd_{1.858}Ce_{0.142}CuO_4$ single crystal 11
–of $NdBa_2Cu_3O_{7-\delta}$ 103
–of $Tl_2Ba_2CaCu_2O_8$ thin films 185
–of $YBa_2Cu_3O_y$ 125
Melt growth
–of YBCO 269
Microwave emission
–by $YBa_2Cu_3O_7$ single crystals 75

Microwave properties 293
Mixed state 293
Mobility of oxygen
–in $La_2CuO_{4+\delta}$ 251
Multilayers 293

Nonlinear effects
–in $YBa_2Cu_3O_7$ single crystals 75
Nonstoichiometric composition 213
Normal state properties 85

O–T transition
–in $NdBa_2Cu_3O_{7-\delta}$ 213
–in $YBa_2Cu_3O_{7-\delta}$ 213

Penetration depth 293
Pinning force
–in $NdBa_2Cu_3O_{7-\delta}$ 103
Pressure effect
–on $Tl_2Ba_2CuO_{6+\delta}$ 262
Pulsed laser deposition
–of $YBa_2Cu_3O_{7-\delta}$-films 1

Quasiparticle interactions 139

Raman spectroscopy
–on Hg-1223 57
RHEED
–on $SrTiO_3$ 233
RHEED oscillation
–in $SrTiO_3$ 233

Scaling law
–for $Bi_2Sr_2Ca_2Cu_3O_x$ tapes 285
Scanning Hall sensor 114
Self energy 139
Self-flux method 227
Single vortex structure 301
Spiral growth
–of $YBa_2Cu_3O_{7-\delta}$-films 1
Spray-drying 57
Step- and terrace structure
–of $SrTiO_3$ 233
Step-flow growth 233
Stranski–Krastanov growth 233
Strong coupling 139
Structural evolution 167
Structural modulation
–in $Bi_2(Sr_{0.9}La_{0.1})_2Cu_{1-x}Co_xO_y$ 202
Structural transformation
–in $K_{1-x}Bi_{1+x}O_3$ 275
Structure
–of $(Ca,Sr)_{5+x}(Pb,Bi)_{3+y}CuO$ 167
–of $Bi_2(Sr_{0.9}La_{0.1})_2Cu_{1-x}Co_xO_y$ 202
–of $K_{1-x}Bi_{1+x}O_3$ 275
–of $La_2CuO_{4+\delta}$ 251
–of $Tl_2Ba_2CuO_{6+\delta}$ 262
Substitution effect
–in $Bi_2(Sr_{0.9}La_{0.1})_2Cu_{1-x}Co_xO_y$ 202
–in $YBa_2Cu_3O_7$ 179
Substitutions
–in Hg-1223 57
Superconducting gap 139
Superconducting state properties 85
Superconductor–insulator transition 95
Surface diffusion
–on $YBa_2Cu_3O_{7-\delta}$-films 1
Synthesis
–of $(Bi,Pb)_2Sr_2Ca_2Cu_3O_{10+\delta}$ 167
–of $Bi_2Sr_2Ca_{1-x}Pr_xCu_2O_y$ single crystals 227
–of $K_{1-x}Bi_{1+x}O_3$ 275
–of Nb(NbN)-AlN multilayers 281
–of Ni tapes films 221

Texturing
–in $NdBa_2Cu_3O_{7-\delta}$ 103
–of Ni tapes 221
–of YBCO 221
Tunneling conductance 46
Tunneling spectroscopy 85
Twin formation
–in $NdBa_2Cu_3O_{7-\delta}$ 213
–in $YBa_2Cu_3O_{7-\delta}$ 213

Uranium doping
–of $YBa_2Cu_3O_{7-\delta}$ 159

Vortex liquid state
–of $YBa_2Cu_3O_{7-\delta}$ thin films 68
Vortex system
–in $Nd_{1.858}Ce_{0.142}CuO_4$ single crystal 11

X-ray diffraction
–on $TbNi_2B_2C$ 209

Y_2O_3 addition
–in YBCO 269

Zinc substitution
–in $YBa_2Cu_3O_7$ 179